

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Reed

Application No.: Unassigned

Filed: March 9, 2001

Title: System And Method For Maintaining
Large-Grained Database Concurrency
With A Log Monitor Incorporating
Dynamically Redefinable Business
Logic

Group Art Unit: Unassigned

Examiner: Unassigned

Attorney Docket No.: 007.0156.01

Assistant Commissioner for Patents
Washington, D.C. 20231

DRAWING TRANSMITTAL LETTER

Sir:

Enclosed herewith please find:

- () _____ sheets of redlined drawing(s) which indicate proposed changes to the drawing(s). Upon approval of these proposed changes, formal drawing(s) will be submitted.
- () _____ sheets of corrected formal drawing(s), as required by the Notice of Patent Drawings Objection (PTO-948) which accompanied the Office Action dated _____.
- () _____ sheets of corrected formal drawing(s), as required by the Notice of Patent Drawing(s) Objection (PTO-948) and approved in the Notice of Allowability dated _____.
- (X) 7 sheets of formal drawing(s).

Examiner's approval of the entry of these drawings is respectfully requested. No new matter has been added.

I hereby certify that this is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR § 1.10 on the date indicated below and is addressed to:

Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

Date of Deposit: March 9, 2001

Typed Name: Patrick J.S. Inouye

Signature: _____

Respectfully Submitted,

By _____

Patrick J.S. Inouye, Esq.

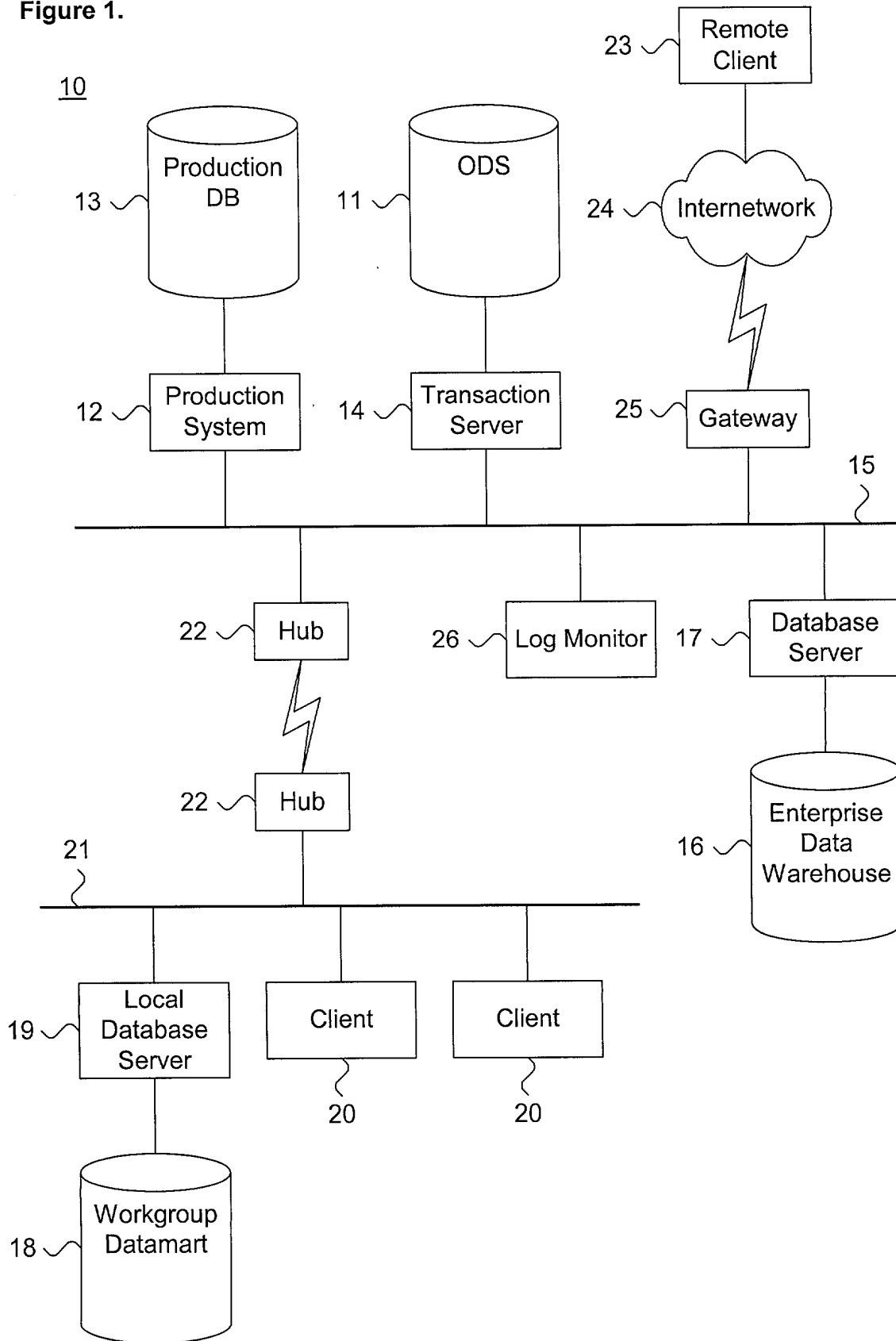
Attorney/Agent for Applicant(s)

Reg. No. 40297

Date: March 9, 2001

Telephone No.: (206) 381-3900

Figure 1.



**Figure 2
(Prior Art).**

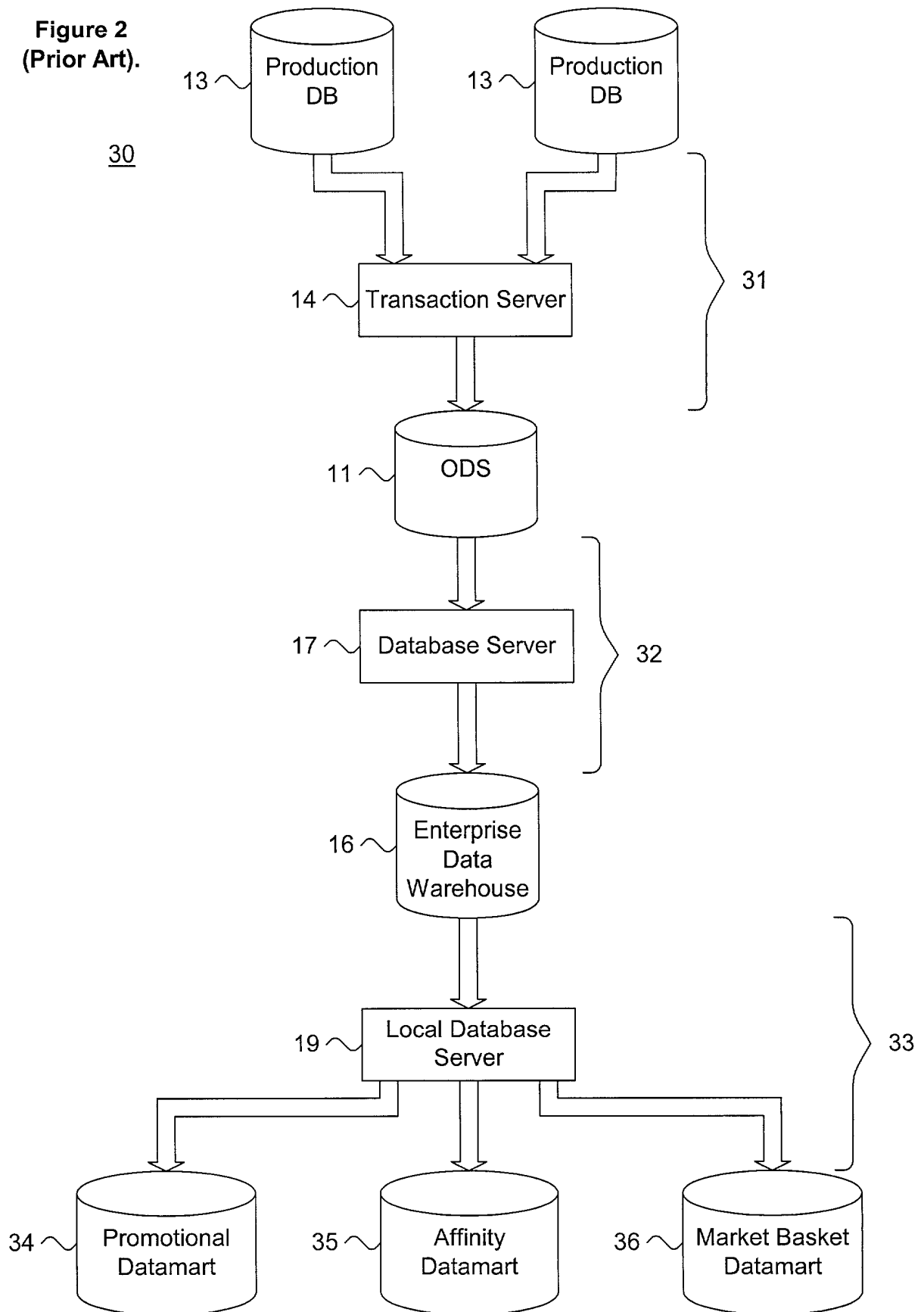


FIG. 3 is a block diagram of a system 50 for data replication. The system 50 includes a Source Database 51, a Log Writer 53, a Log 54, a Log Monitor 26, a Rule set 55, Metadata 56, a Database Builder 59, a Cache 60, Updated Records 57, and a Destination Database 58. The Source Database 51 is connected to the Log Writer 53 via a Transaction Log (TL) 52. The Log Writer 53 writes logs to the Log 54. The Log 54 is monitored by the Log Monitor 26. The Log Monitor 26 is connected to the Rule set 55 and Metadata 56. The Rule set 55 and Metadata 56 are managed by the Database Builder 59. The Log Monitor 26 also interacts with a Cache 60. The Log Monitor 26 identifies Updated Records 57, which are then replicated to the Destination Database 58.

Figure 3.

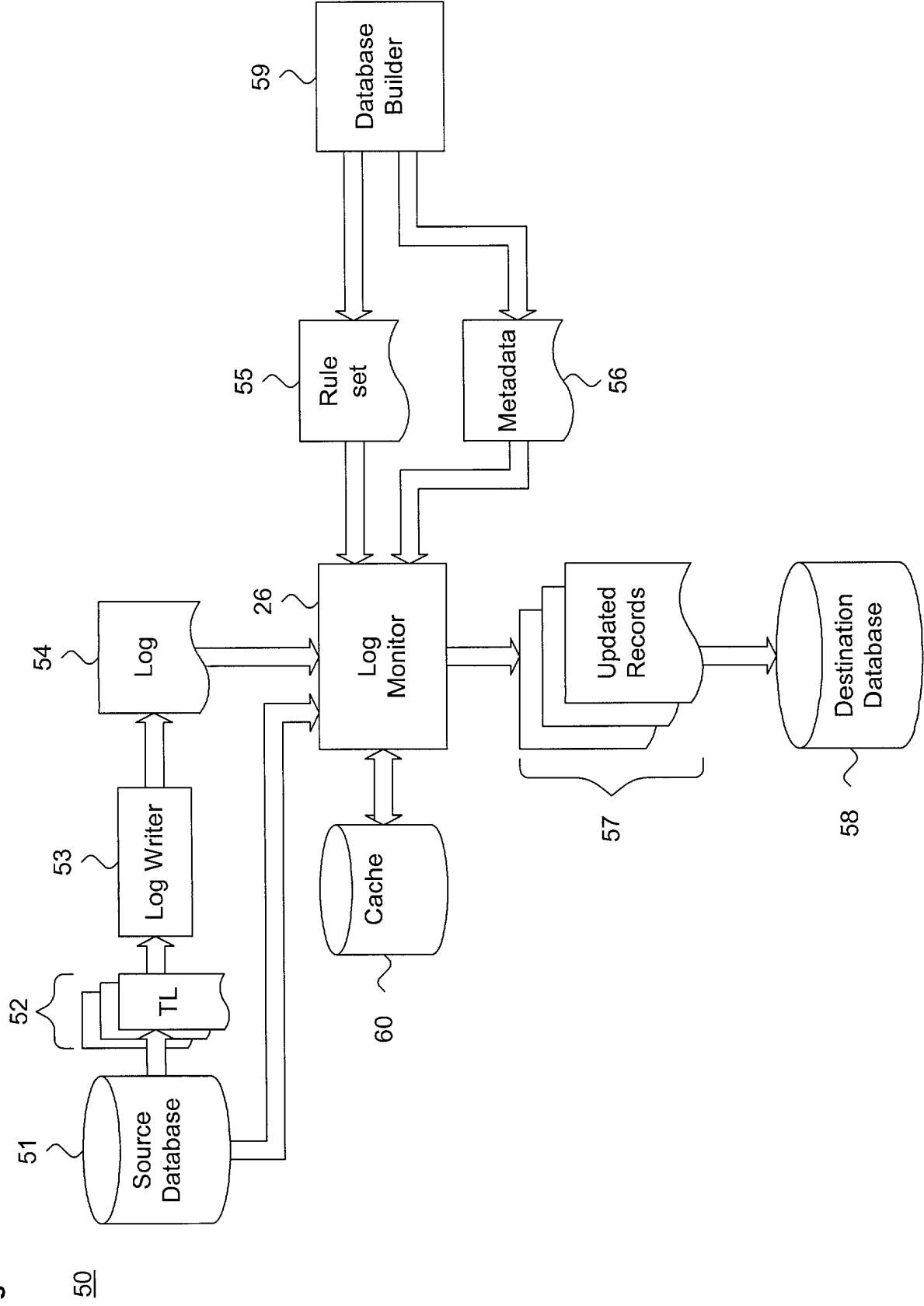


FIG. 4 is a block diagram of a record structure 70. The record structure 70 is divided into four fields: 71, 72, 73, and 74. Field 71 is labeled 'Timestamp'. Field 72 is labeled 'Table ID'. Field 73 is labeled 'Record ID'. Field 74 is labeled 'Operation Type'. Field 75 is labeled 'Undo Info'.

Figure 4.

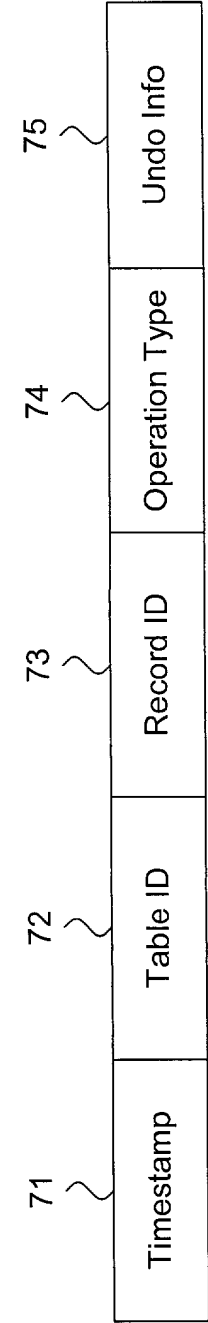


Figure 7.

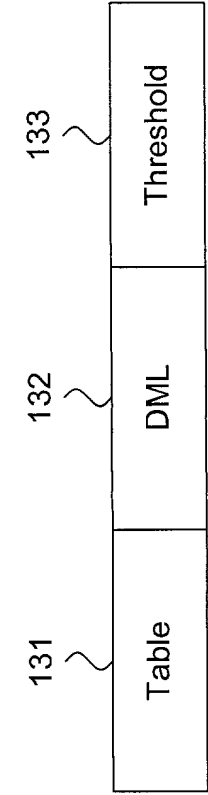


Figure 5.

90

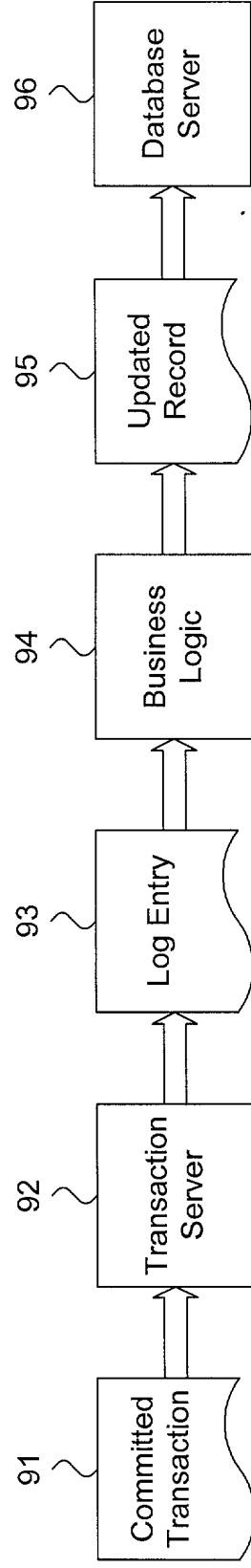


Figure 6.

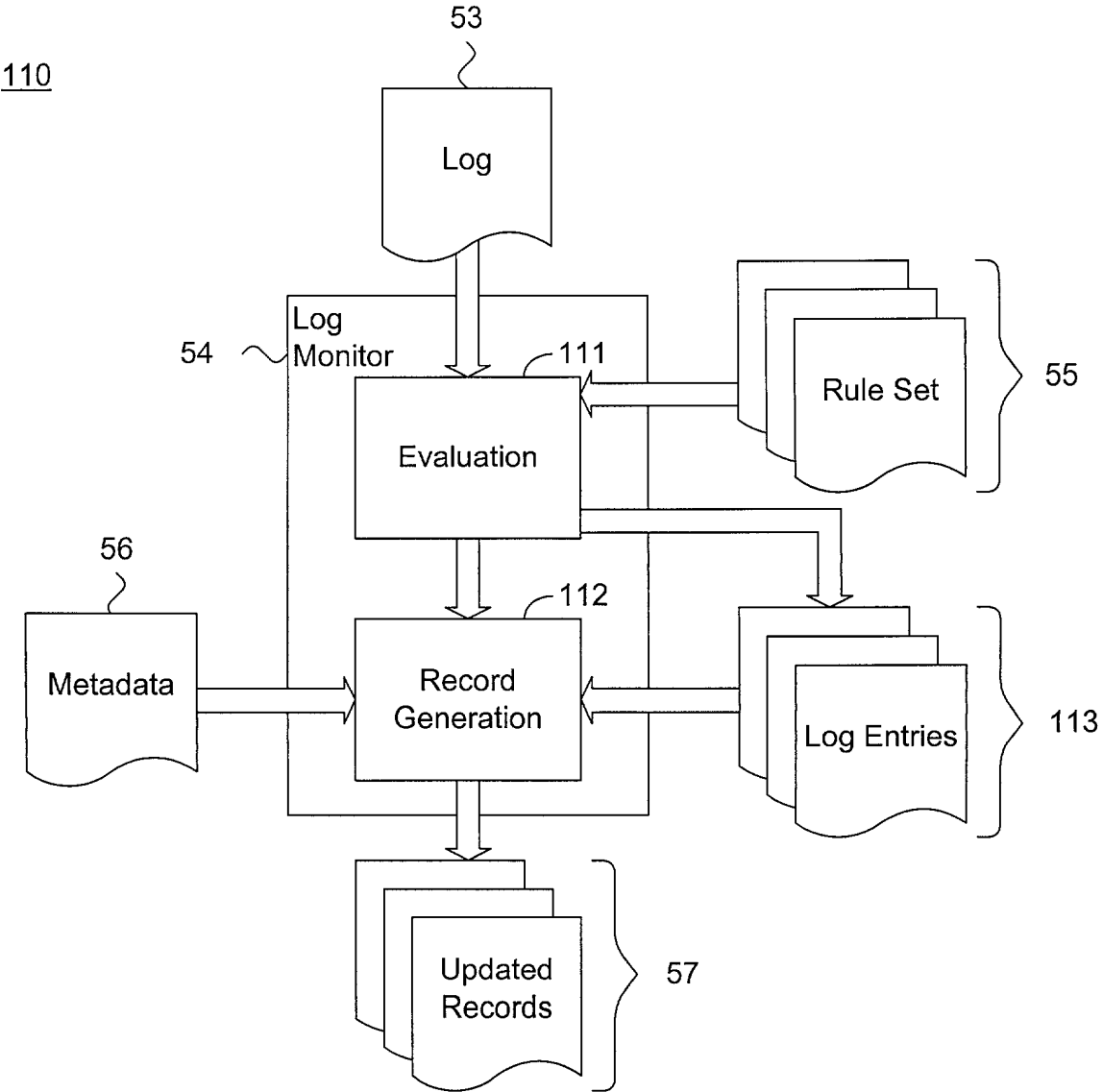


Figure 8.

